

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
30 December 2020 (30.12.2020)



(10) International Publication Number
WO 2020/263769 A1

(51) International Patent Classification:
G06K 9/00 (2006.01)

(21) International Application Number:
PCT/US2020/039043

(22) International Filing Date:
23 June 2020 (23.06.2020)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
62/865,944 24 June 2019 (24.06.2019) US
16/908,227 22 June 2020 (22.06.2020) US

(71) Applicant: **TENCENT AMERICA LLC** [US/US]; 2747
Park Boulevard, Palo Alto, California 94306 (US).

(72) Inventors: **CHOI, Byeongdoo**; c/o TENCENT AMERI-
CA LLC, 2747 Park Boulevard, Palo Alto, California
94306 (US). **LIU, Shan**; c/o TENCENT AMERICA LLC,
2747 Park Boulevard, Palo Alto, California 94306 (US).

WENGER, Stephan; c/o TENCENT AMERICA LLC,
2747 Park Boulevard, Palo Alto, California 94306 (US).

(74) Agent: **RABENA, John F.** et al.; Sughrue Mion PLLC,
2000 Pennsylvania Avenue, Suite 900, Washington, District
of Columbia 20006-1812 (US).

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP,
KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME,
MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ,
OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA,
SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR,
TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ,
UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ,

(54) Title: METHOD FOR EFFICIENT SIGNALING OF VIRTUAL BOUNDARY FOR LOOP FILTERING CONTROL

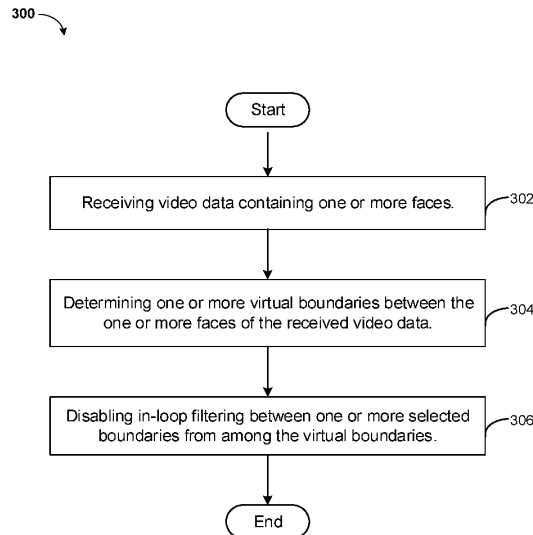


FIG. 3

(57) Abstract: A method, computer program, and/or computer system is provided for coding a video sequence. Video data containing one or more faces may be received. One or more virtual boundaries between the one or more faces of the received video data may be selected. In-loop filtering may be disabled between the one or more selected virtual boundaries from among the virtual boundaries, based on the selected boundaries being discontinuous in a three-dimensional geometry.

[Continued on next page]

WO 2020/263769 A1

TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report (Art. 21(3))*